

20010301.ba v03_n117.bam.20010301

>From ???@??? Thu Mar 1 22:51:37 2001 -0600
Date: Thu, 1 Mar 2001 22:49:16 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3117
Message-Id: <20010302060259.AFE254B74@devel43.theporch.com>

BOATANCHORS Digest 3117

Topics covered in this issue include:

- 1) RACAL 17 UA/UC (US version) ?
by Hans Zimmermann <Hans.Zimmermann@ties.itu.ch>
- 2) About the carbon composition resistor nonsense....
by Arden Allen <gumbear@pacbell.net>
- 3) Re: About the carbon composition resistor nonsense....
by AA8TV@aol.com
- 4) Re: About the carbon composition resistor nonsense....
by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
- 5) Re: About the carbon composition resistor nonsense....
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 6) Re: About the carbon composition resistor nonsense....
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 7) Test - No Read
by Jack Harper <jharper@bsi2000.com>
- 8) 'Scope Probes , Knobs, Misc. FS
by Merz Donald S <merz.ds@mellon.com>
- 9) Re: About the carbon composition resistor nonsense....
by Bruce Muscolino <w6toy@erols.com>
- 10) Re: Larry Ware
by "Lawrence R. Ware" <larry@waywardhome.com>
- 11) Re: About the carbon composition resistor nonsense....
by Richard Loken <richardlo@devax.admin.athabasca.ca>
- 12) Re: WTB: TMC A-1397 PS
by Paul Bernhardt <bern@ppdmail.nrl.navy.mil>
- 13) Re: About the carbon composition resistor nonsense....
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 14) ADMINISTRIVIA: Buying and Selling Guidelines
by listown@nanniandjack.com (Mail List Owner)
- 15) LIST: Multiplied Xtals to Ham Band Frequencies
by "Eugene Rippen" <soundval@foothill.net>
- 16) RE: 'Scope Probes , Knobs, Misc. FS
by Morris Odell <MorrisO@vifp.monash.edu.au>
- 17) HF oscillator hum
by Joe LeKostaj <jm_lekostaj@attglobal.net>
- 18) Re: HF oscillator hum

by Arden Allen <gumbear@pacbell.net>
19) WTB: HW-100 Main tuning knob
by Joe Eide <jeide@execpc.com>
20) Video Camera Tube On E-bay
by Jerry Proc <jproc@idirect.com>

Date: Thu, 1 Mar 2001 10:59:11 +0100 (MET)
Message-Id: <200103010959.KAA01030@ties.itu.ch>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Hans Zimmermann <Hans.Zimmermann@ties.itu.ch>
Subject: RACAL 17 UA/UC (US version) ?

Fellow Boatanchorites:

It appears that at one time there was an "RA-17 UA/UC" version of the RA-17, made for the US market (maybe a predecessor to the RA-117 ?), which had a product detector. I have not been able to locate any information on this variation on the web or in other sources, and it might just have been a name for a combination of the RA-17 with the RA-63 sideband adaptor (of which a model RA-63H was reportedly produced with American tubes). But if there was an actual "product detector" version, this would of course be very interesting.

Therefore: Has anyone ever heard of an "RA-17 UA/UC" and, if so, did this reare species actually have a built-in product detector ?

Thanks in advance for any hints -
73
Hans, HB9AQS

Date: Thu, 01 Mar 2001 03:38:36 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: About the carbon composition resistor nonsense....
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0G9I0041W09TQ7@mta5.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Viva La Resistance!

I am amused by the adherance of some folks (notably audiophooles) to carbon compostion resistors as the true and only resistors to use.....well, everywhere. I decided to find out what the arguements were in favor of

CC's. The only thing complementary, from manufacturers' views, is that CC's are the best at handling pulses. That means they hold up best under short duration overloads which recur periodically. They absorb the stresses that occur within the resistance element with a lower rate of physical deterioration than film types. They may even be better than wire wound resistors at that. With that limited advantage it appears the reason no US manufacturers are making CC's anymore is because film types are superior in every other respect. Here is a reference to the subject from someone who has done some homework on the subject:

<<http://www.aikenamps.com/ResistorNoise.htm>>

Even audiophools have their rebels!

By far the worst characteristics of carbon composition resistors is the value drift with time and the very high temperature coefficient (as bad as +/- 1500 ppm). But we knew that already.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

From: AA8TV@aol.com
Message-ID: <6c.832490a.27cf9ea7@aol.com>
Date: Thu, 1 Mar 2001 07:46:31 EST
Subject: Re: About the carbon composition resistor nonsense....
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: multipart/alternative; boundary="part1_6c.832490a.27cf9ea7_boundary"
Content-Disposition: Inline

--part1_6c.832490a.27cf9ea7_boundary
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Carbon composition resistors have a fraction of the inductance found in metal film resistors. So much so, that metal film resistors will not work at all in some rf applications. Metal film resistors are superior in all most all other respects.

73, Ed
AA8TV

--part1_6c.832490a.27cf9ea7_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * *

* ---REMAINDER OF MESSAGE TRUNCATED--- *

* This post contains a forbidden message format *

* (such as an attached file, a v-card, HTML formatting) *

* Mail Lists at theporch.com only accept PLAIN TEXT *

* If your postings display this message your mail program *

* is not set to send PLAIN TEXT ONLY and needs adjusting *

* * * * *

--part1_6c.832490a.27cf9ea7_boundary--

Message-Id: <3.0.5.32.20010301140545.007f7690@192.168.0.1>
Date: Thu, 01 Mar 2001 14:05:45 +0100
To: Old Tube Radios <boatanchors@theporch.com>
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
Subject: Re: About the carbon composition resistor nonsense....
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello!

And what about voltage rating?. I recall some comments about it... I think voltage rating is lower for same power rating than in metal film versus CC. Am I right?

Regards,

JOSE

At 07:46 1/03/2001 EST, you wrote:
>Carbon composition resistors have a fraction of the inductance found in
metal
>film resistors. So much so, that metal film resistors will not work at all
in
>some rf applications. Metal film resistors are superior in all most all
other
>respects.
>
>73, Ed
>AA8TV

73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN)

EB5AGV Vintage Radio Site: <http://www.geocities.com/eb5agv>

European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

Message-Id: <3.0.1.32.20010301090315.03f336a0@vuse.vanderbilt.edu>
Date: Thu, 01 Mar 2001 09:03:15 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
Subject: Re: About the carbon composition resistor nonsense....
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 03:38 AM 3/1/2001 -0800, you wrote:

>Viva La Resistance!

>

>>By far the worst characteristics of carbon composition resistors is the
>value drift with time and the very high temperature coefficient (as bad as
>+/- 1500 ppm). But we knew that already.

>

I was reading Terman the other night (doesn't everyone have a copy on their
coffee table?) and noted with interest a chart showing the effective
resistance of carbon comp resistors as a function of frequency. Not even
close. Turns out skin effect rears its ugly head bigtime. Lessee, exactly
how are film resistors made....?

73 A. B. Bonds

Message-Id: <3.0.1.32.20010301090644.03f32c08@vuse.vanderbilt.edu>
Date: Thu, 01 Mar 2001 09:06:44 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
Subject: Re: About the carbon composition resistor nonsense....
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:46 AM 3/1/2001 EST, you wrote:

>Carbon composition resistors have a fraction of the inductance found in
metal

>film resistors. So much so, that metal film resistors will not work at all
in

>some rf applications. Metal film resistors are superior in all most all
other

>respects.

>

I have heard that argument a lot, but have yet to see it supported by
evidence. There is little or no inductance in small values such as used
for Q-spoiling. I have tried to measure inductance in values up to a meg
and they do not budge my Fluke bridge. Show me the money. Has anyone ever
actually run into this problem? It may be instead that the frequency

letters right on the face of the scope next to the input connector. Also check the 'scope manual to see what probes originally came with it. I am no expert, but as far as I can tell the input capacitance can vary by as much as 50% with no significant effect on the waveform display.

Tektronix and other probes FOR SALE. All connectors are BNC unless noted. No accessories (like grounding clips) are with the probe unless noted.

P6000 10X, 10Mohm, 11.5pf, 4 foot cord. With screw-on hook tip.
PL-259 Connector. \$9.50 shipped to your door.
P6006 10X, 10Mohm, 7pf (4 foot cord), with screw-on hook tip.
\$11.50 each shipped to your door. 9 to sell
P6006 10X, 10Mohm, 8.5pf (6 foot cord). With screw-on hook tip.
\$11.50 each shipped to your door. 2 to sell
P6006 10X, 10Mohm, 13pf (12 foot cord). With screw-on hook tip.
\$12.50 shipped to your door.
P6007 100X, 10Mohm, 2pf, UHF probe. 3.5 foot cord. With screw-on hook tip. PL-259 connector. \$22 shipped to your door.
P6009 100X, 10Mohm, 2.5pf (9 foot cord). With screw-on hook tip.
\$26.00 shipped to your door. 3 to sell.
P6010 10X, 4 foot cord, other specs unknown. With slip-on hook tip.
\$19 shipped to your door.
P6012 10X, 4 foot cord, other specs unknown. With slip-on hook tip.
\$19 shipped to your door.
P6017 10X, 10Mohm, 14pf, HV probe to 600V. PL-259 connector.
3.5 foot cord. \$11.50 shipped to your door.
P6020 AC current probe with 1m/10ma switchable termination.
\$48 shipped to your door.
P6028 1X, 30pf, 3.5 foot cord. With screw-on hook tip.
\$9.50 shipped to your door.
P6028 1X, 47pf, 4 foot cord. With screw-on hook tip.
\$9.50 shipped to your door. 3 to sell.
P6028 1X, 47pf, 6 foot cord. With screw-on hook tip.
\$9.50 shipped to your door. 2 to sell.
P6053B 10X, 10Mohm, 12.5pf, 6 foot cord. 100mhz+. With ident feature. No accessories. \$28 shipped to your door. 2 to sell.
P6101 1Xm other specs unknown. 100mhz. With 6 foot cord.
No accessories. \$23 shipped to your door.
P6121 10X, 10Mohm, 11.0pf, HV probe to 500V. 100mhz.
4.5 foot cord. No accessories. \$28 shipped to your door
010-0568-00 100X, 10Mohm, 3pf, HV probe to 848V peak, 600vrms.
100mhz+. 4.5 foot cord. With hook tip. \$48 shipped to your door.

Other Brands

HP 10431A 10X, 1Mohm, 6.5pf, with grounding clip & 3 foot cord.

100mhz+. \$22 shipped to your door.
NIC (British) M12, 1X, 1Mohm, 45pf HV probe to 660V. 30mhz,
11ns risetime, 4 foot cord. Brand new in packaging with all
accessories & instructions. \$11.50 shipped to your door. 2 to sell.
TPI SP200 1X/10X switchable probe with reference and adjustable
compensation. 1X (100pf) is good to 15mhz and 200V . 10X
(adjustable 10pf to 40pf) is good to 200mhz and 600V. With all
accessories and instructions. Used. \$12.50 shipped to your door.

Miscellaneous Other Stuff

Gray National Knobs. These are the gray fluted knobs with a metal
skirt and markings as indicated below. \$3.50 each.
5-4-3-2-1-0-1-2-3-4-5 over 180 degrees of the skirt.
10-9-8-7-6-5-4-3-2-1-0 over 320 degrees of the skirt. 2 to sell.
10-9-8-7-6-5-4-3-2-1-0-OFF over 270 degrees of the skirt.
5-4-3-2-1-OFF over 170 degrees of the skirt.
10-9-8-7-6-5-4-3-2-1-0-OFF over 360 degrees of the skirt.

GMT Tymeter digital clock. Classic mechanical digital clock ham
shack accessory. Works perfectly and quietly. But the rear and
one side of the base broke off and need glued back on. When this is
done, there will be no visible signs from the front of the clock, but
a chip will still be missing. \$9

Lawton, Captain Wilbur, The Boy Aviator on Secret Service Or Working
With Wireless, Hurst & Co., NY, 1910. Hardback with nice cover
illustration, binding edges worn, pages brown but still readable, not
fragile or flimsy. \$18 PPD

Middleton, 101 Ways To Use Your Oscilloscope, Sams, 1966,
VG paperback. \$8 PPD

Heathkit HD-15 phone patch original manual, excellent. \$7 PPD

DISCLAIMER: The information contained in this e-mail may be confidential
and is intended solely for the use of the named addressee. Access, copying
or re-use of the e-mail or any information contained therein by any other
person is not authorized. If you are not the intended recipient please
notify us immediately by returning the e-mail to the originator.

Message-ID: <3A9E7915.D94FA693@erols.com>
Date: Thu, 01 Mar 2001 11:30:13 -0500
From: Bruce Muscolino <w6toy@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: About the carbon composition resistor nonsense....
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A. B., and the group,

Let us not forget that while metal film resistors are superior at RF frequencies, the technology required to produce them meant they were inordinately expensive in the years that carbon dominated!

73

Message-Id: <3.0.5.32.20010301124404.00802ea0@pop.pipeline.com>
Date: Thu, 01 Mar 2001 12:44:04 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "Lawrence R. Ware" <larry@waywardhome.com>
Subject: Re: Larry Ware
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 22:53 2/28/2001 -0600, Don Reaves wrote:

>Where are you, Larry Ware, instigator of Rules of Ware on the boatanchors
>list, National Radio historian? I ran into a mutual acquaintance where
>Larry used to hang out and he hasn't been seen there in a year. Has
>anyone heard from him or have a contact?
>
>--

Alas, while quite busy with many things,
I'm still reading the mail... :-)

Ongoing projects include slowly working on my coil-catacomb book.
Keeping an old Porsche running.
Tinkering with the pile of old National radios needing TLC, and
prepping the new race kart for the season....

Oh yea, I have a full time job as well... :-)

I have a new e-mail address also.
The old one will be turned off soon.
larry@waywardhome.com

-Larry

I used to have a life....
I traded it for an old Porsche and a Fast DSL line...
larry@waywardhome.com

Date: Thu, 01 Mar 2001 10:49:21 -0700 (MST)
From: Richard Loken <richardlo@devax.admin.athabascau.ca>
Subject: Re: About the carbon composition resistor nonsense....
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Message-id:
<Pine.PMDF.3.95.1010301104417.541122782R-1000000@devax.admin.athabascau.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

On Thu, 1 Mar 2001, Bruce Muscolino wrote:

> Let us not forget that while metal film resistors are superior at RF
> frequencies, the technology required to produce them meant they were
> inordinately expensive in the years that carbon dominated!

How things change! Two weeks ago I received 100 each of 16 resistor values,
all 1/2watt 1% Philips metal film resistors for Canadian \$.03 each from
ElectroSonic. And that is their standard price, its nice to know some things
are still a bargain.

The only down side was the quantity 100 limit but my 100 resistors cost less
than a dozen at some retail outlets. I think I will I will keep 20 of each
and sell or give away the rest to friends and acquaintances.

Richard Loken VE6BSV, Systems Programmer - VMS
Athabasca University
Athabasca, Alberta Canada
** richardlo@admin.athabascau.ca **

Message-ID: <3A9E8E20.35E6D7CF@ppdmail.nrl.navy.mil>
Date: Thu, 01 Mar 2001 13:00:00 -0500
From: Paul Bernhardt <bern@ppdmail.nrl.navy.mil>

MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Roy Morgan <roy.morgan@nist.gov>, JONWEINER@aol.com,
baswaplist@foothill.net, boatanchors@theporch.com, samrc@wdavis.net
Subject: Re: WTB: TMC A-1397 PS
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

I have made two copies of the SBE-2 manual, GPT-10K manuals (Vol.I and III), and

GPR-92 manual. These are all bound together. The GPT-10K collection has the schematic for the SBE-3 as well as amplifier and power supply schematics. I currently have an SBE-2 and SBE-3 exciter working with a home brew power supply.

Let me know if you want copies or pieces of the copies that I have made. Cost for the whole set is \$60. Cost for parts are corresponding less.

Paul Bernhardt
KF4FOR

Bruce - KB6LWN wrote:

> On Mon, 26 Feb 2001, Roy Morgan wrote:
>
> > At 01:03 PM 2/25/01 -0500, JONWEINER@aol.com wrote:
> > >I'm looking for a TMC model A-1397 power supply. Used with the model SBE-2 1
> > >watt exciter.
> >
> > Me, too.
> >
> > I also need a copy of the manual for the SBE-2.
>
> Me ? I'm still looking for a good deal on an SBE-2 :-/
>
> Bruce

Message-Id: <3.0.1.32.20010301123929.00ffa838@vuse.vanderbilt.edu>
Date: Thu, 01 Mar 2001 12:39:29 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
Subject: Re: About the carbon composition resistor nonsense....
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:49 AM 3/1/2001 -0700, you wrote:

>On Thu, 1 Mar 2001, Bruce Muscolino wrote:

>

>> Let us not forget that while metal film resistors are superior at RF

>> frequencies, the technology required to produce them meant they were
>> inordinately expensive in the years that carbon dominated!
>
>How things change! Two weeks ago I received 100 each of 16 resistor values,
>all 1/2watt 1% Philips metal film resistors for Canadian \$.03 each from
>ElectroSonic. And that is their standard price, its nice to know some things
>are still a bargain.
>
I regularly buy carbon film resistors from RatSchack (www.radioshack.com),
half watt are 1 cent each in lots of 100. Buck per value....

A. B. Bonds

Message-Id: <200103011915.f21JF0Cl014569@osr506.nanniandjack.com>
From: listown@nanniandjack.com (Mail List Owner)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ADMINISTRIVIA: Buying and Selling Guidelines
Date: Thu, 1 Mar 2001 11:15:00 -0800 (PST)

Gang-

This periodic posting is intended as a gentle nudge and suggestion
which should improve the quality of posts to the BoatAnchors list, and
maintain our excellent (and high) signal to noise ratio...

The list culture has developed to include "for sale" and "wanted"
posts. Originally, all buying and selling traffic was focused on
finding parts to complete a restoration. As the list has evolved,
there has been an increase in buying and selling activity, which
may not be all bad.

There is, however, a real need to observe certain conventions, lest
this otherwise benign activity turn into a real disturbance to the
real purpose of the list: discussions of radio equipment using
vaccuum tubes, including the life and times of the designers and
users of such gear.

Please observe these guidelines:

There is never a reason for an auction post or update on the
Boatanchors List... comments about gear at auction elsewhere are noise,
and those who would care already visit the auction sites,
and those who do not frequent the auctions do not want to hear
about it... simple policy -- keep this off the list!

1) LIMIT the frequency of for sale postings... once a month is a
good starting point

- 2) DO NOT post endless "xxx is sold" to the entire list... you offered it for sale, and it is not considerate of list resources (which include the time and energy of the other list members) to burden the list with these senseless notices. Use direct email to those who responded, or, if you don't want to answer them personally, just don't use the list to advertise them for sale!
- 3) AVOID even the mere faint appearance that you are posting items for sale as a regular adjunct to your business dealings. This has become more of a problem lately with some long lists showing up regularly on the main list, or with dealers who appear to be using the list for their personal advertising advantage. Failure to observe these basics *will* result in banishment from the list -- just don't do it! When even a shadow of doubt creeps in, read the "Welcome" message again... it spells it out!
- 4) DO be considerate of those on the list in your for sale or wanted postings. Keep them short, infrequent, and ONLY include items specifically appropriate to the list -- NO solid state gear is obvious, but try to avoid pushing the envelope in any area.
- 5) LONG lists and estate offerings should be sent to me at:
listown@nanniandjack.com
so they may be uploaded to the archives for email, web, or ftp retrieval.
- 6) We now have a web page up. Go to:
<http://www.theporch.com>
and follow the "ListProc Web Interface" Link to get registered and use the web interface, which allows searching of previous articles and the archived text files.

Thanks for your understanding and help in making the boatanchors list have the highest signal to noise on the InterNet.

--

73

Jack, W4KH/Mobile - - - BoatAnchor Mailing List Owner - - -
listown@nanniandjack.com - "Plus ca change, plus c'est la meme chose"
"Il n'y a que les idiots qui ne changent jamais d'idee"
Thu Mar 1 11:15:00 PST 2001

Message-ID: <007a01c0a290\$b446c0e0\$d1d2abd8@foothill.net>
From: "Eugene Rippen" <soundval@foothill.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: LIST: Multiplied Xtals to Ham Band Frequencies
Date: Thu, 1 Mar 2001 12:46:24 -0800
MIME-Version: 1.0

Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Yet another stupid Human Trick!

Here is a chart from which one can look
up a crystal frequency at multipliers of
2, 3, 4, 6, 8, 12 & 18 and see if it has
any practical use in Ham Bands of from
160M through 928Mhz.

OR

One may look at the chart for certain
ham bands and quickly see what
crystals could be used at various
multipliers.

TO PRINT OUT use Landscape setting
on your printer (then remember to reset it
to portrait, something I rarely do).

To be found at
<http://www.muchstuff.com/xtal-frq.htm>

The two other lists are still there:
The list of frequencies used by boatanchors
(Comments and correction appreciated)
This can be printed out in portrait format.
<http://www.muchstuff.com/freq1.htm>

The list of final tubes (RF and Modulator) in
various Ham transmitters and Transceivers.
(Comments and correction appreciated)
This can be printed out in portrait format.
<http://www.muchstuff.com/xmttube2.htm>

Message-ID:
<07A064EA6042D4118A62009027F70E770517D8@nt_exchange.vifp.monash.edu.au>
From: Morris Odell <MorrisO@vifp.monash.edu.au>

To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: 'Scope Probes , Knobs, Misc. FS
Date: Fri, 2 Mar 2001 08:41:43 +1100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi all,

Don wrote:

> Many people wrote me asking "what type of probe should I use
> with model
> XXX." But I know of no such cross-reference to look that up.

Take a look at:

http://www.reprise.com/host/tektronix/reference/voltage_probes.asp

73,

Morris

Mime-Version: 1.0
Message-Id: <p04320412b6c48a75ab33@[32.103.39.85]>
Date: Thu, 1 Mar 2001 17:56:51 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Joe LeKostaj <jm_lekostaj@attglobal.net>
Subject: HF oscillator hum
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Wondering if anyone can suggest how to reduce AC hum in the local oscillator of a receiver. The unit in question is a Hammarlund HQ-100 with a 6U8 oscillator. Receiver is typical single conversion with 455kc IF. On the highest freq range (10-30 MHz) the AC hum becomes rather apparent when listening to CW or SSB signals. I can hear the hum on the local oscillator signal when I tune it in on my Sony synthesized SW radio (a wonderful troubleshooting tool!). The hum is not (so) apparent on the lower freq ranges.

Is it just inherent in such an entry-level receiver? Can something be done to improve it?

Tnx & 73,
Joe K9LY

Date: Thu, 01 Mar 2001 18:01:00 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: HF oscillator hum
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0G9J006A4SANVT@mta5.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Hi Joe;

> Wondering if anyone can suggest how to reduce AC hum in the local
> oscillator of a receiver. The unit in question is a Hammarlund HQ-100
> with a 6U8 oscillator. Receiver is typical single conversion with
> 455kc IF. On the highest freq range (10-30 MHz) the AC hum becomes
> rather apparent when listening to CW or SSB signals. I can hear the
> hum on the local oscillator signal when I tune it in on my Sony
> synthesized SW radio (a wonderful troubleshooting tool!). The hum is
> not (so) apparent on the lower freq ranges.

Try replacing the 6U8 (could be heater-cathode leakage) if you haven't already tried that. Check the power supply ripple, you may have an electrolytic that went south for the winter. If those don't correct the problem then it probably is a shortcoming of the design. Most likely it is too much normal ripple on the B+ to the oscillator. Insert another stage of RC filtering in the B+ line going to the oscillator. Is the oscillator tube near the power transformer? Try a magnetic shield over the tube. Try bypassing the heater circuit at the oscillator tube. Are you sure the oscillator signal your Sony is picking up is not hum modulated by RF flowing through the power supply rectifier? Try bypassing the AC power coming into the chassis. Try another stage of RF bypassing in the B+ line to the oscillator. That's all I can think of.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-ID: <3A9F0CF7.764F5272@execpc.com>
Date: Thu, 01 Mar 2001 21:01:11 -0600
From: Joe Eide <jeide@execpc.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: WTB: HW-100 Main tuning knob
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Anyone have a junker that could donate its main tuning knob to another?

Thank You,

Joe - KB9R

Message-ID: <3A9F25C2.4E073C28@idirect.com>
Date: Thu, 01 Mar 2001 23:46:58 -0500
From: Jerry Proc <jproc@idirect.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Video Camera Tube On E-bay
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Folks,

A WWII video camera tube is up on e-bay. It's worth a glance before the listing expires on Mar 2. Sorry for the short notice but I was just made aware of it this evening.

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1115962950>

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Jerry Proc VE3FAB
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HMCS HAIDA Historic Naval Ship. Toronto, Ontario

End of BOATANCHORS Digest 3117
